AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A heated cylinder ~~Heated cylinder (1, 14, 18) for heating a paper web, cardboard web, tissue web or other fiber web in a machine used for producing and/or refining the fiber web, said heated cylinder~~ comprising:

a cylinder sleeve ~~which is impinged upon at least in part from the inside by a hot fluid and has~~ having at least one inner sleeve layer ~~(5, 15, 19)~~ and [[an]] one outer sleeve layer ~~(6, 16, 20)~~, ~~characterized in that~~

wherein the at least one inner sleeve layer and one outer sleeve layer ~~two sleeve layers (5, 6; 15, 16; 19, 20)~~ are separated from each other by a hollow space into which the fluid can be introduced.

2. (Currently Amended) The heated cylinder ~~Cylinder (1, 14, 18)~~ according to claim 1, ~~characterized in that~~ wherein the inner sleeve layer ~~(5, 15, 19)~~ is thicker than the outer sleeve layer ~~(6, 16, 20)~~.

3. (Currently Amended) The heated cylinder ~~Cylinder (1, 14, 18)~~ according to claim 1, ~~characterized in that~~ wherein the outer sleeve layer ~~(6, 16, 20)~~ has a wall thickness from 8 to 15 mm.

4. (Currently Amended) The heated cylinder ~~Cylinder (1, 14, 18)~~ according to claim 1, ~~characterized in that~~ wherein the fluid is steam and the steam in the

hollow space between the two sleeve layers ~~(5, 6; 15, 16; 19, 20)~~ has a positive pressure of between 2 and 13 bar.

5. (Currently Amended) The heated cylinder ~~Cylinder (1, 14, 18)~~ according to claim 1, ~~characterized in that~~ further comprising:

a rib structure [[(18)]] selected from at least one of ribs extending in axial or circumferential direction or having a helical shape, a honeycomb structure, or a lattice structure,

and wherein the ribs are formed ~~is applied~~ on to the inner surface of the outer sleeve layer ~~(6, 16, 20)~~ facing the hollow space.

6. (Currently Amended) The heated cylinder ~~Cylinder (1, 14, 18)~~ according to claim 5, ~~characterized in that~~ wherein the rib, honeycomb or lattice structure [[(8)]] is comprised of a material with a high thermal conductivity~~, in particular copper or aluminium~~.

7. (Currently Amended) The heated cylinder ~~Cylinder (1, 14, 18)~~ according to claim 5, ~~characterized in that~~ wherein the surface area of the rib, honeycomb or lattice structure [[(8)]] is ten to one hundred times greater than the inner surface of the outer sleeve layer ~~(6, 16, 20)~~.

8. (Currently Amended) The heated cylinder ~~Cylinder (1, 14, 18)~~ according to claim 1, ~~characterized in that~~ wherein the outer sleeve layer ~~(6, 16, 20) is comprised of~~ comprises a material with a high thermal conductivity.

9. (Currently Amended) The heated cylinder ~~Cylinder (1, 14, 18)~~ according to claim 8, ~~characterized in that~~ wherein the outer sleeve layer ~~(6, 16) is comprised of~~ comprises boiler steel.

10. (Currently Amended) The heated cylinder ~~Cylinder (1, 14, 18)~~ according to claim 1, ~~characterized in that~~ wherein the inner sleeve layer ~~(5, 15, 19)~~ has a high modulus of elasticity.

11. (Currently Amended) The heated cylinder ~~Cylinder (1, 14, 18)~~ according to claim 1, ~~characterized in that~~ wherein the pipes ~~(11, 12)~~ between the inner ~~(5, 15, 19)~~ and the outer sleeve layer ~~(6, 16, 20)~~ are connected via rotary bushings to a fixed steam supply or an exhaust steam and condensed water tank.

12. (Currently Amended) The heated cylinder ~~Cylinder (1, 14, 18)~~ according to claim 1, ~~characterized in that~~ wherein the inner sleeve layer ~~(15, 19) performs the load-bearing function and serves as~~ comprises a rigid core which absorbs [[the]] loads acting on the outer sleeve layer ~~(16, 20)~~.

13. (Currently Amended) The heated cylinder ~~Cylinder (14)~~ according to claim 1, ~~characterized in that~~ wherein the inner [[(15)]] and the outer sleeve layer [[(16)]] are connected by [[way]] at least one of bars, pins [[(17)]], screws, and rivets ~~and the like~~.

14. (Currently Amended) The heated cylinder ~~Cylinder (18)~~ according to claim 1, ~~characterized in that~~ further comprising platelets ~~(21, 22) are~~ attached between the inner [[(19)]] and the outer sleeve layer [[(20)]].

15. (Currently Amended) The heated cylinder ~~Cylinder (18)~~ according to claim 14, ~~characterized in that~~ wherein the platelets ~~(21, 22)~~ are arranged parallel to each other, ~~in particular in axial direction of the cylinder [[(18)]],~~ crosswise, helically, or in a honeycomb or lattice structure.

16. (Currently Amended) The heated cylinder ~~Cylinder (18)~~ according to claim 14, ~~characterized in that~~ wherein the platelets ~~(21, 22)~~ have a flat or a profiled surface.

17. (Currently Amended) The heated cylinder ~~Cylinder (18)~~ according to claim 14, ~~characterized in that~~ wherein the platelets ~~(21, 22)~~ become wider in the direction of the outer sleeve layer [[(20)]].

18. (Currently Amended) The heated cylinder ~~Cylinder (1, 14, 18)~~ according to claim [[1]] 5, ~~characterized in that~~ wherein the surface of the rib, honeycomb or lattice structure on the inner side of the outer sleeve layer ~~(6, 16, 20)~~ at the circumferential end becomes smaller near the end faces ~~(3, 4)~~ of the cylinder ~~(1, 14, 18)~~.

19. (Currently Amended) A heated cylinder ~~Heated cylinder (23) for heating a paper web, cardboard web, tissue web or some other fiber web in a machine for producing and/or refining the fiber web which has~~ comprising:

one outer cylinder sleeve [[(19)]],

~~characterized in that~~ wherein the outer cylinder sleeve [[(24)]] is supported by struts ~~(25, 26, 27)~~ inside the heated cylinder [[(23)]].

20. (New) The heated cylinder according to claim 6, wherein the material having high thermal conductivity is selected from copper or aluminum.

21. (New) The heated cylinder according to claim 15, wherein the platelets are further arranged in an axial direction of the cylinder.

22. (New) A machine for producing and/or refining a paper web, cardboard web, tissue web or some other fiber web, comprising the heated cylinder according to claim 1.

23. (New) A machine for producing and/or refining a paper web, cardboard web, tissue web or some other fiber web, comprising the heated cylinder according to claim 19.